

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A device ~~(1)~~ for controlling the lighting in a room, the device comprising:

~~[-]~~ a controller unit, the controller unit comprising:

~~[-]~~ ~~processing means~~ a processor, and

~~[-]~~ one or more light measuring cells communicatively connected to the processor ~~processing means~~, and

~~[-]~~ one or more luminaires,

wherein the one or more luminaires and the controller unit are communicatively connected in an addressable digital lighting system, and ~~wherein the processing means processor is programmed to automatically assign a digital address to each luminaire and further to~~ automatically identify a spatial position of each luminaire based on the one or more light measuring cells, and thereby automatically provide a relationship between ~~the digital address and the spatial position of each luminaire and a digital address associated with each luminaire~~.

2. (Currently amended) A device ~~according to~~ The device of claim 1, wherein the spatial position of each luminaire ~~(5)~~ is identified from perceived light levels or changes in perceived light levels.

3. (Currently amended) A device ~~according to~~ The device of claim 1, wherein the ~~processing means processor is adapted to, once the spatial position of each luminaire has been determined, to~~ install pre-programmed lighting scenes suitable for the determined configuration of luminaires.

4. (Currently amended) A device according to The device of claim 1, wherein the luminaires ~~contain~~ include gas discharge lamps and ~~wherein the processing means processor~~ is communicatively connected to a ballast of each of the gas discharge lamps.
5. (Currently amended) A device according to The device of claim 1, ~~further~~ including a user control (30) for controlling the luminaires individually or in groups.
6. (Currently amended) A controller unit (2) for controlling the lighting in a room, the controller unit comprising:

~~[-] processing means a processor, and~~
~~[-] one or more light measuring cells (3) communicatively connected to the processing means processor, and~~
~~[-] means for communicative connecting wherein the controller unit is communicatively connected to one or more luminaires (5), the luminaires being communicatively connected in via an addressable digital lighting system, wherein and the processing means processor is programmed to automatically assign a digital address to each luminaire and further to automatically identify a spatial position of each luminaire using the one or more light measuring cells and thereby automatically provide a relationship between the digital address and the spatial position of each luminaire and a digital address associated with the luminaire.~~
7. (Original) A connector device communicatively connected to two or more of the devices according to claim 1, wherein the connector device is adapted to control each of the two or more devices, and thereby adapted to control each of the luminaires connected to each of the two or more devices.
8. (Currently amended) A The connector device according to of claim 7, wherein the control device comprises ~~processing means a processor~~ and wherein the ~~processing means processor~~ is adapted to install pre-programmed lighting scenes suitable for the control of the two or more devices.

9. (Currently amended) A method for identification of an individually addressable luminaire in a room, the method comprising ~~the following steps:~~

- a) ~~assigning randomly digital addresses to each of the addressable luminaires,~~
- b) turning off all the luminaires,
- c) turning on~~[,]~~ a first luminaire ~~corresponding to the first digital address~~ and measuring by using a light detector at least one of the light intensity of the incident light and/or the direction from where the incident light originates, then turning off the first luminaire,
- d) turning on a next luminaire ~~corresponding to the next digital address~~ and measuring at least one of the light intensity of the incident light and/or the direction from where the incident light originates, then turning off the next luminaire,
- e) repeating step d)~~the turning on of the next luminaire and measuring the light intensity until all the at least one light intensities and/or directions have intensity and direction has been measured for each of the luminaires,~~
determining ~~the a spatial positions position~~ of each of the luminaires from the measured light intensities and/or directions, and ~~thereby~~
providing a ~~matrix representing the digital addresses and corresponding spatial positions of all to a digital address associated with each of the luminaires.~~

10. (New) The method of claim 9, including providing a plurality of predefined lighting scenes to facilitate control of the luminaires based on their spatial position.

11. (New) The method of claim 10, including providing a user control that facilitates selection of a select scene from among the plurality of lighting scenes, and controlling the luminaires based on the select scene.

12. (New) The method of claim 11, including allowing the user control to override the controlling of the luminaires based on the select scene.

13. (New) The method of claim 9, including providing a user control that facilitates controlling the luminaires individually or in groups.

14. (New) The method of claim 9, including automatically assigning the digital address to each luminaire.

15. (New) The method of claim 9, including communicating commands to the luminaires over a network based on the digital address associated with each luminaire.

16. (New) The device of claim 1, wherein the processor is configured to automatically assign the digital address to each luminaire.

17. (New) The device of claim 1, wherein the processor is configured to automatically identify the spatial position of each luminaire by sequentially activating each luminaire and determining the spatial position based on signals received from the one or more light measuring cells during each sequential activation.

18. (New) The controller unit of claim 6, wherein the processor is configured to automatically identify the spatial position of each luminaire by sequentially activating each luminaire and determining the spatial position based on signals received from the one or more light measuring cells during each sequential activation.